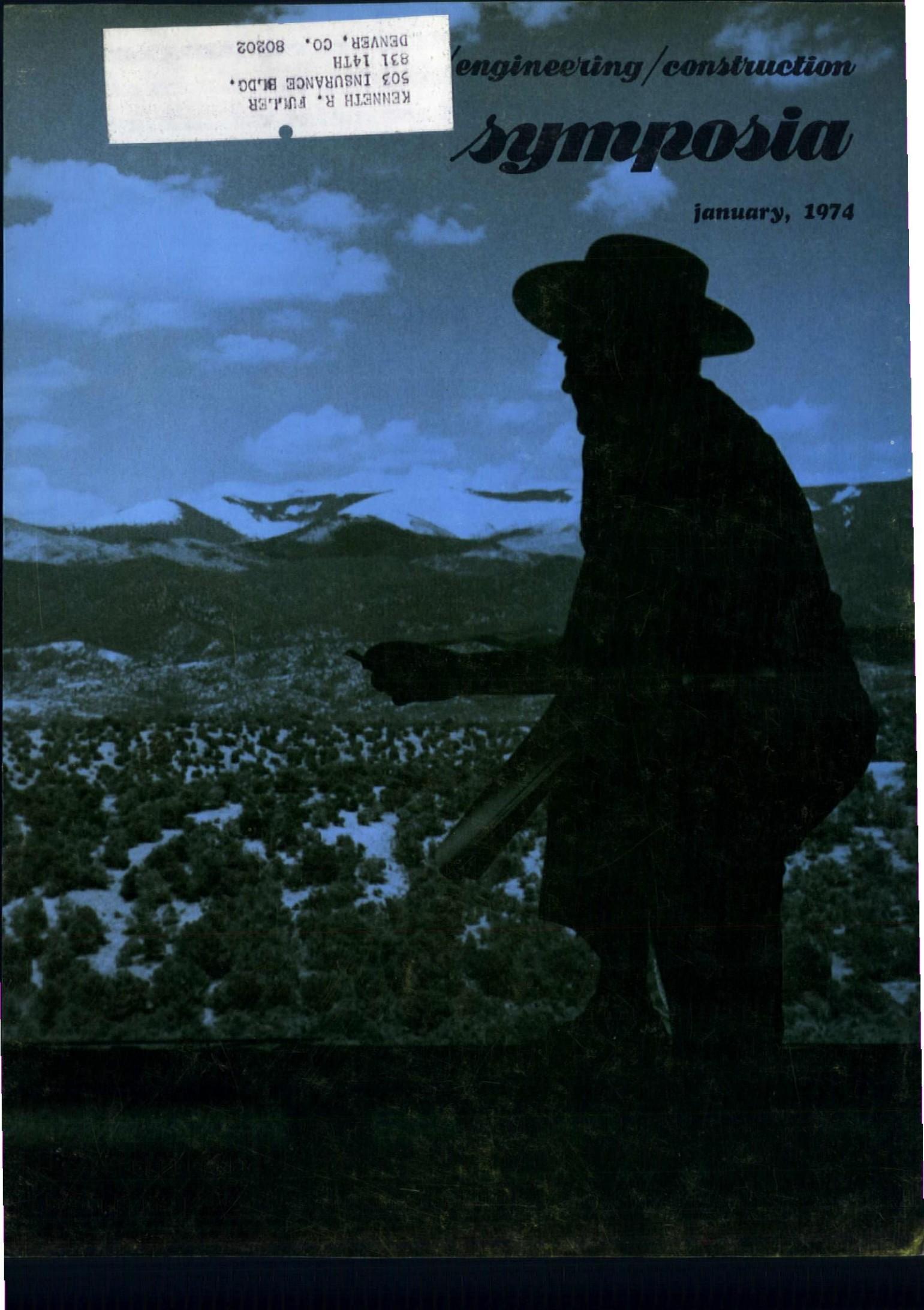
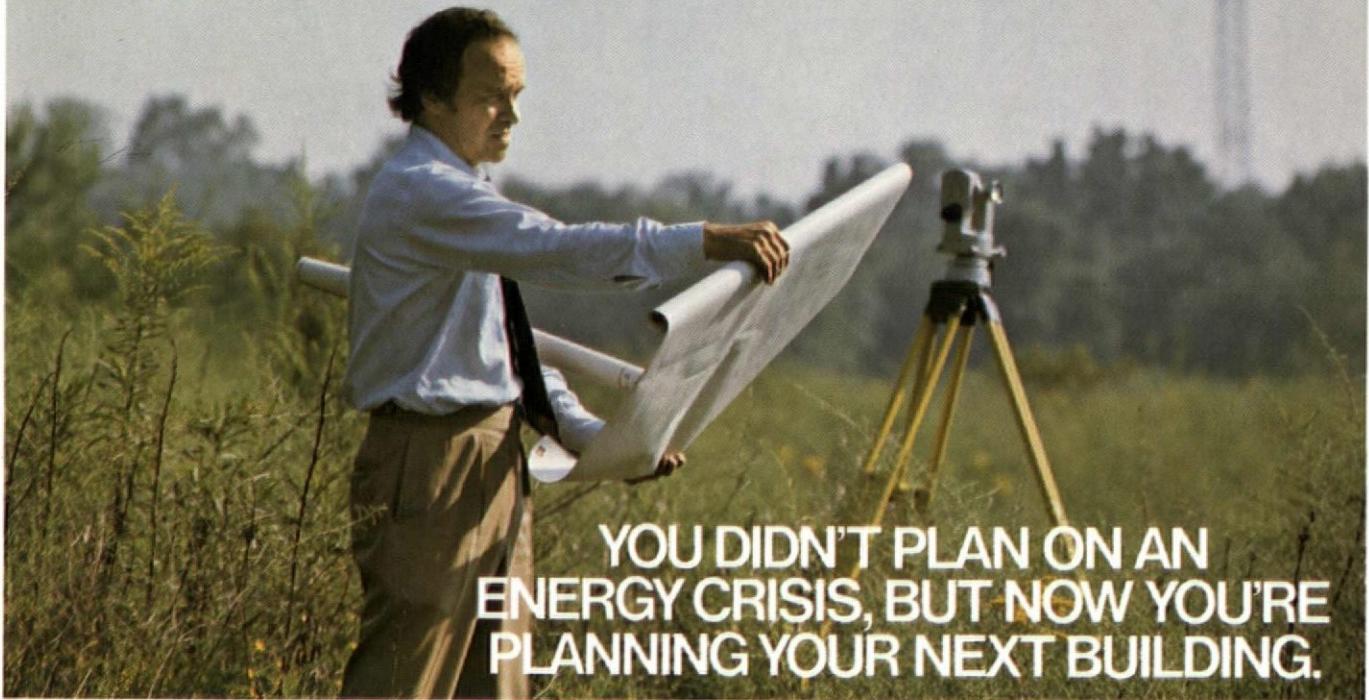


DENVER, CO. 80202  
831 14TH  
503 INSURANCE BLDG.  
KENNETH R. FULLER

*engineering/construction*  
*symposia*

january, 1974





## YOU DIDN'T PLAN ON AN ENERGY CRISIS, BUT NOW YOU'RE PLANNING YOUR NEXT BUILDING.

### Which building material will you use?

You've got energy shortages to think about. Air-conditioning costs. Heat gain through the long, hot summers. Heat loss in the winter months. Heating equipment costs. The whole set of energy-use factors suddenly has become critically important. The building material you use affects all of them.

Compare the energy conserving capability of masonry, for instance, with double-plate glass walls.

At 4:00 P.M. on a hot August day in Washington, D.C., the heat gain through a square foot of west-facing insulated brick and concrete block wall will be 2.2 Btus an hour.

The heat gain through a double-plate glass wall in the same location will be 173 Btus a square foot in an hour. A big difference.

Project this differential over 10,000 square feet of wall. You come up with a heat gain through masonry of 22,000 Btuh, while the heat gain through double-plate glass is 1,730,000 Btuh.

In the case of the masonry wall, cooling equipment with a two-ton capacity can handle the heat gain. But with the double-plate glass wall, about 143 tons of cooling capacity will be needed.

An analysis of a typical 10-story building shows that over its useful life, the air-conditioning cost for a square foot of our masonry wall will be about 23 cents. For the double-plate glass wall, it will be \$7.60.

It takes a lot of money to buy, install and create space for all the extra air-conditioning equipment

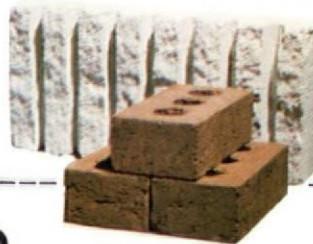
required by the double-plate glass wall. A lot of money and a lot of energy to run that equipment.

Compare the heat loss in winter. It has a dramatic effect on energy consumption and building operation costs.

Our masonry wall, for example, has a "U-value" of .12. The double-plate glass wall has a "U-value" of .55. (U-values are used to determine heat loss through one square foot of wall area in Btuh per degree Fahrenheit differential across the wall.)

This means that the masonry wall is about 450% more efficient, on the average, than the glass wall in reducing heat loss.

Over the useful life of the building, the heating cost per square foot of wall area for masonry will be about 30 cents. For double-plate glass, about \$1.38.



In a time of one energy crisis after another, masonry makes eminently good sense as a good citizen.

The masonry industry believes that the thermal insulating qualities of masonry are an important economic consideration to building designers, owners and investors, and all citizens.

Masonry walls save on air-conditioning and heating costs. And just as important, they are less expensive to build. The masonry wall we've described would have a 38% lower initial cost than the double-plate glass wall.

If you'd like to find out more, write to us and we'll send you a booklet comparing the thermal

insulating qualities of masonry walls with double-plate glass walls, metal panel walls and pre-cast concrete walls.



### COLORADO MASONRY INSTITUTE

Suite 304, 3003 East Third Ave. at Milwaukee,  
Denver, Colo. 80206 (303) 321-2141

Please contact us for information comparing the insulating qualities of masonry with other building materials.

Name \_\_\_\_\_

Title \_\_\_\_\_

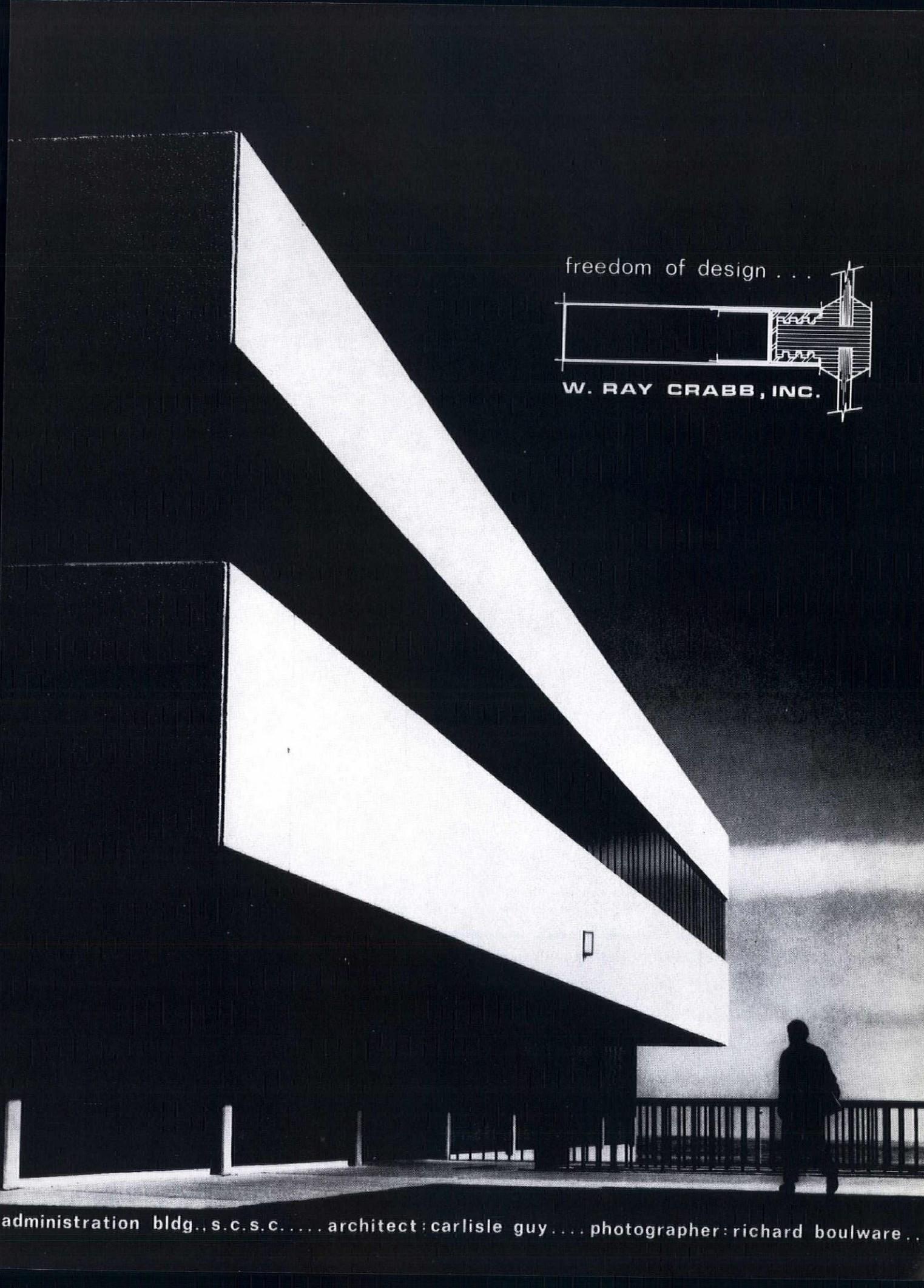
Company \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

Nature of Business \_\_\_\_\_



freedom of design . . .



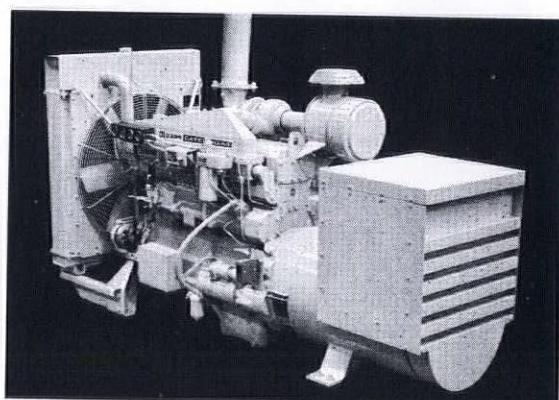
W. RAY CRABB, INC.

administration bldg., s.c.s.c. .... architect: carlisle guy .... photographer: richard boulware ..



# We've got your client's number.

**50 kw | 60 kw | 70 kw | 75 kw | 85 kw  
100 kw | 125 kw | 155 kw | 165 kw  
205 kw | 230 kw | 280 kw | 285 kw  
310 kw | 335 kw | 340 kw | 375 kw  
450 kw | 470 kw | 560 kw | 565 kw  
620 kw | 675 kw | 750 kw | 900 kw**



Next time you're choosing a standby power unit, consider a few facts about Caterpillar systems.

First, Caterpillar can match what your plans call for. We make 25 different diesel standby power configurations from 50 kw to 900 kw. Natural gas from 70 kw to 655 kw. Even more in multiple units.

Then consider reliability. The engine-generator is the heart of any standby power system. And Caterpillar systems are powered by engines with a worldwide reputation for dependability. Even Minuteman missile sites rely on Cat Standby Power.

Our systems are versatile, too. They're available for dual service installations that provide both economical on-site power under normal conditions and standby power to critical services in emergencies.

McCoy Company services what we sell. We'll help select, install, test and maintain whatever system fits your needs.

Why not give us a call? Our price per kw may give you a surprise. Because Caterpillar quality costs less than you think.

## McCoy COMPANY

6000 DAHLIA • DENVER • 288-2621  
DURANGO • GRAND JUNCTION • PUEBLO



Caterpillar, Cat and © are Trademarks of Caterpillar Tractor Co.

**Cat Standby Power.  
Reliability comes in all sizes.**

# UP UP With People!

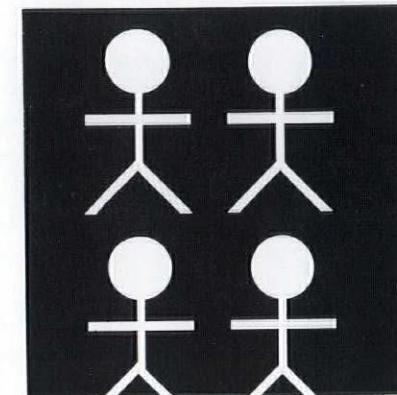
(A brief report honoring Professional and Industry members in our Symposia Region who have achieved some of the "good things in life" in the past few weeks.)

## UP WITH GITTINGS!



Left to right: Dan Green (Reed Mill and Lumber), 1972 winner, congratulates Dick Gittings who is admiring friend Paul. (Bunyan, of course.)

Each year in November, members of W.O.O.D., Inc., honor the area lumberman who has done the most to perpetuate and further the interest of the industry they represent. In 1973, this man was Richard Gittings, general manager of Gittings Lumber



Company of Denver, who was presented the Paul Bunyan traveling trophy at the Annual Awards Banquet in Denver. Dan Green, 1972 winner, recounted the adventures of Paul and his Blue Ox Babe and then went on to cite Gittings for his many activities promoting the lumber industry. Dick acted as area spokesman in the "March on Washington," worked with both Metro Home Builders and the Colorado Forest Services and edited slide presentations on the environment which W.O.O.D. presents to many groups. He has also been active in promoting school programs on careers in wood.

Mr. Gittings will hold the Paul Bunyan

Award until next November when he will pass it along to the next W.O.O.D. winner.

## UP WITH JOHNSTONE!

James G. Johnstone of Wheat Ridge has been nominated to serve as vice president for the Southwest Region of the National Society of Professional Engineers. Nomination to the post is tantamount to election as he was the only candidate nominated. Johnstone will begin his initial term as vice president on July 1, 1974. The Southwest Region consists of the seven states of Colorado, Wyoming, Oklahoma, Texas, New Mexico, Louisiana, and Arkansas, as well as the Canal Zone. As vice president, he will be serving in the second highest elected post of the 69,000-member National Engineering Society.

Johnstone has been associated with the Colorado School of Mines in Golden since 1957 where he is currently a professor of Engineering. He received his geological engineering degree from Mines in 1948 and his master's degree in Engineering from Purdue University in 1952.

Johnstone has been active in Denver and Colorado engineering activities for so many. His service to the Professional Engineers of Colorado (PEC) included president of the Metro Denver Chapter in 1961-62, president of PEC in 1965-66, and national director of NSPE since 1967.

I-beam Joist  
I SERIES

For top quality at low cost try it and you'll never use a 2x's joist again.

general building service and supply, inc.  
1736 boulder street, denver, colo. 80211  
phone (303) 458-1736

OLYMPIC  
Pre-Stained Wood

Quality - Economy  
Reduced Labor Cost  
Lasting Results  
IMMEDIATE DELIVERY

Alpine  
LUMBER CO.

4100 So. Santa Fe Dr.  
Englewood, Colo. 80110  
Phone 789-2275

A black and white photograph of a woman with blonde hair, wearing a dark turtleneck sweater and shorts, standing behind a window frame. She is looking out from the right side of the frame, her left hand resting against the glass.

**FOR ENERGY CONSERVATION  
USE  
INSULATING GLASS**

Warmer in Winter      Cooler in Summer

New Brown Finish Available with Insulating Glass

**COLORADO  
metal  
products**

INTRODUCES...

**COLUMBINE  
ALUMINUM CASEMENTS  
NOW IN THE  
NEW BROWN FINISH**



**COLORADO metal products corp.**

The logo for Colorado Metal Products, featuring the word "colorado" in a stylized, lowercase, italicized font, and "metal products" in a bold, lowercase, sans-serif font stacked below it.

450 KALAMATH STREET • DENVER, COLORADO 80204  
(303) 266-2451

The only Colorado owned metal window manufacturer for over 30 years.

Another Les Taylor Enterprise

## **UNABLE TO GET ROOF DECK INSULATION?**



**All-weather Crete®**

**Roof deck insulation**

**Can Be Applied in Cold Weather**

**Light Weight Fills**

**Roof Deck Systems**

**Call us for Relief of Your  
Shortage Problems**



**Construction Specialties Co.**

**Denver, Colorado 80201**  
**P.O. Box 927**                           **2625 Walnut**  
**534-3271**

## **BOCA Considers Preservation Amendment**

*(Our appreciation for this information goes to Murvan M. "Scotty" Maxwell, Vice Chairman of the Codes and Standards Committee of the American Institute of Architects. Although "Scotty" practices in New Orleans, he has long been a reader of Symposia, and Tom Muths' article "Historic Preservation . . . the A.I.A. Effort" in our November issue prompted him to forward this material. Since it was not received in time for inclusion in our December issue, we forwarded copies of the Memorandum from the National Trust for Historic Preservation and a copy of the proposed amendment to all AIA Preservation officers in our region and to other interested persons. Hopefully, the BOCA acted affirmatively on this matter—it could have only the most salutary effect upon efforts to preserve our architectural heritage.)*

Partial text of the National Trust Memo:

"It has come to the attention of the National Trust that one of the major national building codes, the Building Officials and Code Administrators (BOCA) will be considering a code addition which is of critical importance to preservation. Attached is a copy of the code amendment from the state of Virginia effective September 1, 1973, which is the model being proposed for inclusion in the Basic Building Code.

"This code addition will be one of the many to be considered at a public hearing at the mid-year meeting held by the Building Officials and Code Administrators. The public hearing will be at the Sheraton Hotel, Fort Lauderdale, Florida on January 3 and 4, 1974.

"There are 21 Articles to the Basic Code and since this addition appears in the third Article, the hearing will likely be on the first day, January 3. The purpose of the hearing is to consider public testimony."

The National Trust goes on to say that a representative was being sent to this hearing, and that testimony did not have to be presented in person but could be inserted in written form into the official record. *(It was for this reason, we quickly contacted Preservation officers in our area.)*

The following is the text of the historic building section being considered for inclusion in the Basic Building Code, Building Officials and Code Administrators:

Section 318.0—"Special Historic Buildings and Districts"

The Administrative Amendment to the Virginia Uniform State-wide Building Code which is the BOCA Code 1970 with 1972 supplements. The amendment is Section 318.0. "Special Historic Buildings and Districts." The provision of the basic code, relating to the construction, repair, alteration, enlargement, restoration and moving of buildings or structures shall not be mandatory for existing buildings or

*Concluded on Page 30*

## CONSERVATION of ENERGY with PELLA CLAD and SLIM SHADES

### OPERATING COSTS

### WINDOW CLEANING COSTS

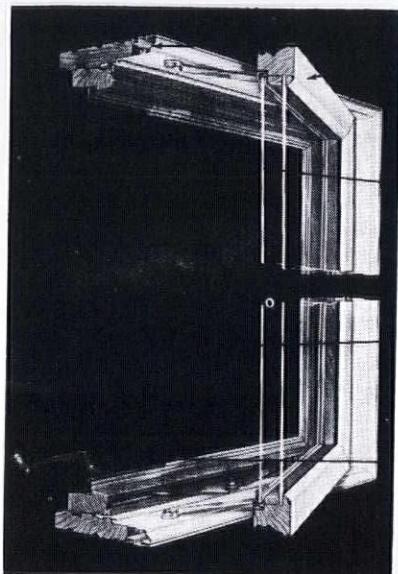
### PAINTING COSTS

### DRAPERY COSTS

PELLA Infiltration Rate	.19
NWMA Requirements	.5
PELLA shading coefficient (Summer)	.18
Most Reflective Products	.25
PELLA Heat Transmission (Winter)	.42
Most Insulating Glass	.65

Pivot Windows washable from inside building  
Paint — 10 year warranty on exterior finish

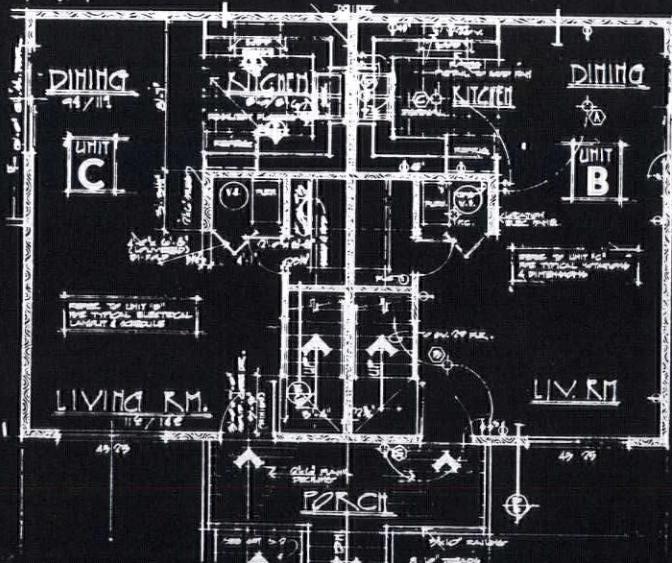
PELLA PROVIDES ALL ADVANTAGES OF REFLECTIVE  
MATERIALS AT LESS COST!



## Pella Products of Colorado, Inc.

4500 Grape St.

303/388-0888



### P D I offers

Proper and Precise Execution of Your Design

Insuring your client the most for his money

Insuring Satisfaction through client follow up  
after completion.

Your Design Implemented by the Best Craftsmen in the Building Trades  
**Custom Homes      Commercial      Industrial**



## Property Development Investors

500 E. 84th Ave.

Thornton, Colo.

287-2864

# A View of the Energy Crisis or The Ant-Hill Syndrome

What kid hasn't poked a stick into an ant hill! Few pastimes on a boring summer afternoon occasion more childish glee than the hysterical scurrying of these little insects when hearth and home is threatened. Ants, they tell us, live in an intricate and well ordered society not unlike our own—we are perhaps less efficiently organized. Small wonder then at our psychotic response when the Arabs turned the oil spigot to "off." The wailing and rending of our garments in the daily press and in other news media has been something to behold. Always an ant hill in the best of times, the floor of the Stock Exchange has assumed an extra air of frenzy. The anguished outcry has, we believe, engulfed the still small voices of reason and common sense. Another view of the Energy Crisis is perhaps in order.

## So, What's New?

Shortly after World War the Twice, the Interior Department cast some doubts on our ability to meet the fuel needs of another such conflict recommending immediate research and development of oil shale and coal as alternate sources. In 1951, President Harry Truman appointed a Commission headed by William S. Paley of CBS to "look into it." They did. A year later came the same recommendation... government and industry should develop other sources of liquid and gaseous fuel. This panel went so far as to predict that commercial production of synthetic oil from shale or coal was possible by the early 1960's.

Since 1956, Dr. George O. G. Lof and his family have lived in a solar heated house in suburban Denver.

The well known mechanical engineering firm of Bridgers and Paxton in Albuquerque still occupy the solar building which was constructed at about the same time.

In the not too distant past (1972 - '73) Producers' Council presented

programs on "What to do about the Energy Crisis" to large numbers of the construction community throughout the United States.

The 1973/Western Mountain Region/AIA Conference planned in the Spring of last year concerned itself with the same topic. In other words, we've been kicking this thing around for a long time.

Who dropped the ball?

The Government? Was it their decision to put a man on the moon rather into research and development in the field of energy that threw the overalls into Mrs. Murphy's chowder?

How about the Oil Industry? They have patently dragged their feet. Is it true as Fred G. Simonton, Executive Director of the Mid-West Electrical Consumers Association, suggests that "Big Oil" is a "cartel" who have built only one new refinery in the past five years, done little exploration and who couldn't do the job because of refinery shortage if they were up to their eyebrows in crude.

Have design professionals shirked their role by continuing the "curtain wall" building and failing to persuade their clients that low initial cost in construction is not the prime requisite?

What about Detroit? Don't they *really* know how to build a better, more economical engine?

Searching for a "scape goat" may well be an exercise in futility.

## The 6% "Tragedy" or Doesn't Anybody Read the Fine Print?

In prompt response to an inquiry put to all our Editorial Board people, Don Decker, Executive Manager of AGC/C, Building Branch, Inc. sent us a four page release which was subsequently printed in the daily press under a screaming headline predicting a \$114 million drop in 1974 for construction

in Colorado. If anyone took the time to read the entire story, it is immediately evident that this represented a 6% drop from an all time high in 1973, and a total of approximately 1.8 billion dollars for all construction is to be put in place during the coming year. Six percent is "slow down," not a disaster!

Nor does Mr. Decker and his source, the Colorado Business-Economic Outlook Forum lay all the blame at the door of the energy shortage. Other factors involved include a curtailment of water and sewage disposal permits; anticipated state land use, air pollution control and environmental legislation and wage and price controls which will, in all likelihood, remain in effect until their current expiration date (April 30) and may be extended in some form for the construction industry beyond that date.

Don goes on to enumerate some of the mitigating factors against the threat of a more serious slowdown. 1) Relaxation of present monetary tightness before the end of the year with some decline in interest rates. 2) The positive force of underlying demand for construction which should make itself felt in a second-half increase in activity.

His conclusion is so sane and so considered—we quote in full....

"If the State Legislature will take a realistic look at the necessity for balance between environmental control and economic development and if the construction industry (the nation's largest incidentally) can receive its just share of energy, fuel, water, utility and material allotments, Colorado should continue to be one of the brighter spots in the nation for total construction activity."

## A Look Around

In Albuquerque, Joe Boehning summarized—"Most of the state is on

natural gas, so we don't seem to have a heating problem. Most of our electricity is generated by using natural gas, or as in the Four Corners area by coal. We seem to have plenty of gas and electricity for the time being. It is still necessary for us to be frugal, and many businessmen are cutting down on Christmas lighting. The use of luminarios is growing. (See Joe's report in "Around the Region")

As far as the building industry is concerned—"We are experiencing shortages in steel, plumbing fixtures, hardware, electric gear, etc. and these are causing delays in the construction of buildings. These were reality before the energy crisis and perhaps will be magnified."

Speaking as an architect, he writes—"We must design with the preservation of energy playing a most important part in our thinking. One of the most obvious, and yet most overlooked, immediate solutions is to use more insulation, and use it more effectively. With the magnificent vistas we have in the West, we cannot eliminate the use of glass, but we must be more careful in *how* we use it. In spite of what we were told in Estes at the WMR, the use of solar energy is not simple, and its practical use far in the future."

"The Energy Crisis?" writes Walt Bishop from Washington... "You bet your sweet bippy we've heard about it! Natural gas isn't a problem as it comes from Canada. They are raising the price 10% due to Canadian wholesale price increases. Our current problem is a hydro-electric shortage due to light snowfall in our Cascade and Olympic mountains last winter and a less than normal rainfall this past summer. The electric power people are concerned that home owners short of oil will start using more electric portable heaters. We do have atomic energy/electric plants on line at Richland and down near Kalama, and a strip-mined, coal-fired electric

plant near Centralia which apparently hasn't been running at full capacity. The petroleum stuff presents another problem. There isn't enough apparently and may be less. What puzzles me is that the statistics we're given via news media don't seem to be consistent. Wish I knew the answer!"

In Montana, Robert Fehlberg wrote also of the natural gas rate increase since, as in Washington, Canadian sources have raised their prices. "The coal mining situation is having some effect on our economy—as the demand for energy increases, the production of coal will increase and this is having an effect in eastern Montana. It's almost impossible to get a plumber in Billings, all of them are working on the steam generating plants in Coalstrip at a better wage." He appends ...not without humor that his wife, LaDonna, "has stocked up on fireplace wood in case we have to huddle by the fireplace to tough out some shortages... she gets cold easy."

"In regard to the energy crisis," writes Engineer John Hoffmann from Boise, "there is some mixed feelings in Idaho about the seriousness of it. As far as electric power is concerned we have plenty available, but the governor questions sharing it with adjoining states. Some schools have scheduled four day weeks because of fuel oil shortage and in some industrial plants natural gas use has been curtailed when they are on interrupted contract. One of the concerns of Consulting Engineers is that fuel shortage on construction jobs will also curtail engineering operations. There is also some concern about allotment of gasoline for our survey trucks which travel quite a bit in Idaho and use a great deal of gasoline. With gas stations closed on Sundays, crews must gas up on Saturday or they have to wait until Monday morning before leaving on out-of-town trips. Our reservoirs are full and it looks like our hydroelectric developments have the pressure off at present."

John concludes with some long range and short range challenges which prompt careful consideration....

"Idaho has been promoting Geothermal development of energy, but there is going to be a lapse of time before

detail systems could be worked out and become functional.

"It is my opinion that the Federal Government should initiate a crash program such as the Manhattan Project used during World War II to develop the atomic bomb. If we can do it for the destruction of the world, why can't we do it for the world's progress? No doubt we are going to have to develop new sources of energy and who but the engineers can find the solution? Let's put them to work on this kind of program instead of going to the moon!"

Hear! Hear!

### The Credibility Gap

As the old year waned, there was a growing skepticism in many quarters as to actual shortages. It is difficult to equate continued oil shipments to South Vietnam and Cambodia (perhaps as high as 35,000 barrels per day) and the generosity of Secretary Kissinger in offering to "divvy up" with the hard pressed Dutch with a full-scale crisis.

A preliminary report of fuel savings by the "Feds" indicates this is running as high as 21% rather than the 7% requested by President Nixon.

We are still exporting scrap steel—unless, of course, the plea by AGC for an immediate one-year embargo has been granted. AGC also favors an immediate abolition of price controls on steel products used in construction "to make the domestic sale of steel more attractive to manufacturers."

Some of us out here in God's country are beginning to suspect that the "ant hill syndrome" so prevalent in the D. C. bureaucracy may be due, in part, to their belief that the United States of America is bounded on the east by the Atlantic Ocean and on the West by the Alleghenies.

Perhaps if the "prophets of doom" aided and abetted by the public press try just a little harder they can drag us back, kicking and screaming, to a re-run of the 1930's.

I ain't goin'!

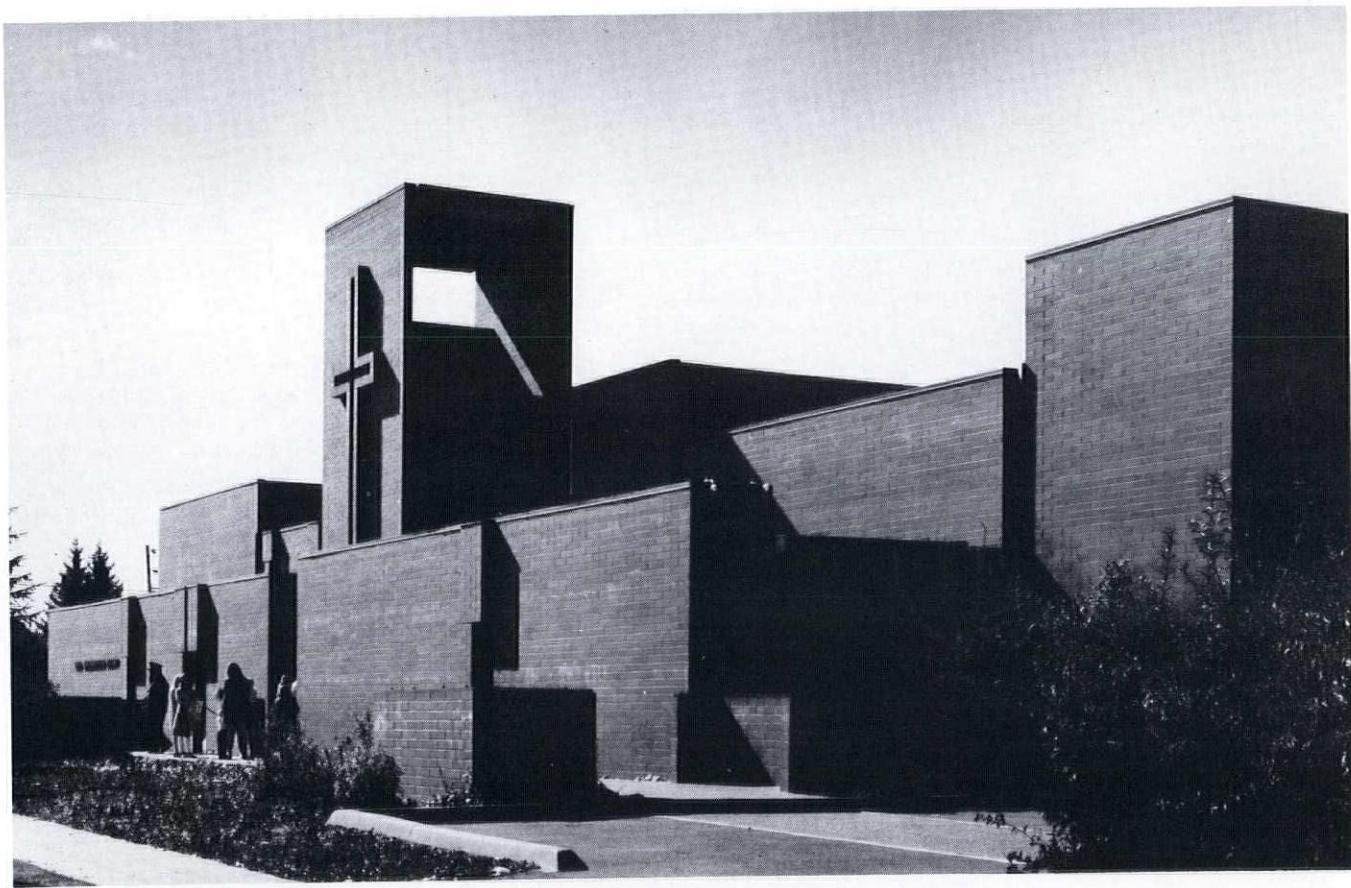
EWT

# Southwest Washington Chapter American Institute of Architects

## 1973 AWARDS PROGRAM

Each year, the Southwest Washington Chapter of the American Institute of Architects holds an Awards Program to honor examples of excellence in architecture. This year's Program was judged on September 24 in Victoria, British Columbia, site of Northwest Regional Conference. The distinguished jury included Richard Campbell, AIA of Campbell, Yost, Grube and Partners of Portland, Oregon; Charles Endicott, AIA, of Wilmsen, Endicott, Greene, Bernhard and Associates (WEGROUP) of Portland and Eugene; Phillip Jacobson, FAIA, of The Richardson Associates of Seattle, Washington, and Sidney Snyder Jr., AIA, of Ossipoff, Snyder, Rowland and Goetz of Honolulu, Hawaii.

The Jury selected four award winners, and certificates were presented at a special Awards Banquet held October 24th at the Lakewood Terrace Restaurant in Tacoma, Washington.



### HONOR AWARD

#### **The Salvation Army Citadel—Tacoma Architects: Harris, Reed and Litzenberger, AIA**

*The Salvation Army project was noted for its strong, sculptured statement; well organized with a limited vocabulary of materials achieving a balanced interior-exterior continuity.*



## MERIT AWARD

### **Morton Senior Citizens Center—Morton**

**Architects: Lee Hansen of the Delta Division/Xelco Corporation**

*The Morton housing was cited as a modest and sensitive complex achieved within the limited confines of FHA requirements. The village character using a common or central space is socially convincing.*

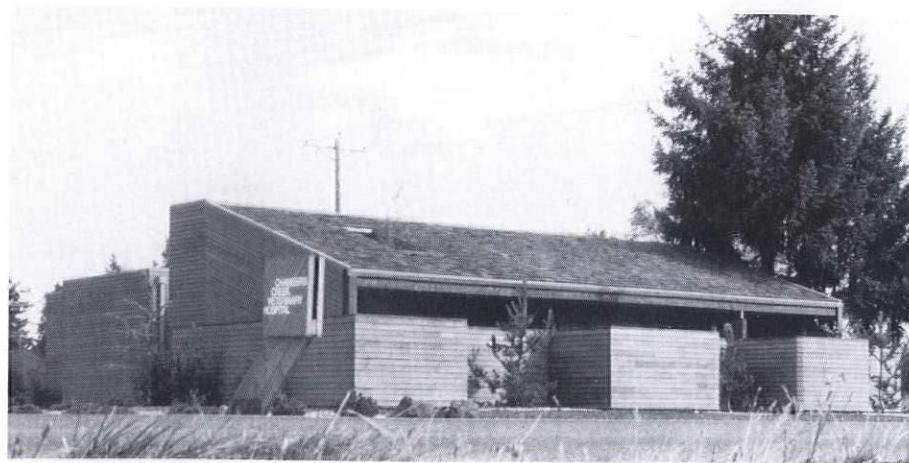


## MERIT AWARD

### **Large Group Instructional Center, Evergreen State College**

**Architects: Harris, Reed and Litzenberger, AIA**

*The Large Group Instructional Center at the Evergreen State College was lauded for its bold conceptual statement, using the relationships of the various required spaces to establish its form.*



## MERIT AWARD

*The Chambers Creek Veterinary Hospital was described as a simple use of a residential idea for animal care that is direct and well organized.*

**Chambers Creek Veterinary Hospital—Tacoma**  
**Architects: James McGranahan, AIA**

# time for tucson



March 21-23, 1974

"Using C.S.I. Today"

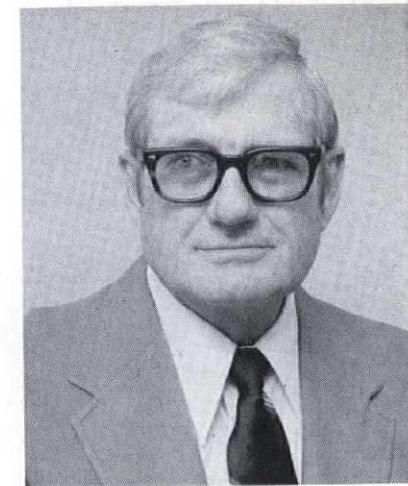
## 9th Annual Region 10 Conference

What better time to spend a weekend in sunny Tucson! Members of the Construction Specifications Institute from the northern reaches of Region 10 will enthusiastically accept this invitation to slip away from snow and slush—others from warmer climes will certainly be there because a Region 10 Conference always means you get smarter and happier.

The Host Chapter Conference Committee is headed by genial Charlie Sewell, and will be held in the beautiful, brand new facilities of *Braniff Place*. The shine isn't even off this one—the formal opening was held on November 29, and there were plenty of "oh's and ah's" of admiration at the exquisite South American decor including a patio dining room, recreation pool deck and but marvelous food. *Braniff Place* is just across the way from *La Placita Village* (designed by Architect

ture One, Ltd.—Tucson President, Phil Dinsmore is a principal) which will be nearing completion and Charlie tells us there will be several quaint shops, galleries and restaurants in operation by conference-time. An equal attraction is Tucson's Community Center just a stone's throw away. The complex is the design of Cain, Nelson and Wares, Cook and Swaim and Friedman and Jobusch—a joint venture of talented Tucson architects. The generous landscaped area includes the Convention Center, a Music Hall and a Little Theater. Both *La Placita* and the Community Center have been featured in Symposia . . . like last May for instance.

But right now—let's get acquainted with Charlie Sewell. He's right at home in Tucson (he was born there), his wife is the former Pat Holliday and they have two daughters, Frosty and Chris plus two granddaughters, Shelley and Lacey. Charlie writes—"Entered the Paint Contracting business in 1949 with partner, H. W. Sewell, who's the one who affords me the time to attend conferences, conventions, etc." And Charlie stays pretty busy since he is Regional Vice President of the Tucson Chapter of PDCA and heading up the Region 10 Conference Committee. He's a charter member of the Tucson CSI Chapter, served as a Board member four years, Bulletin Editor for two years, V.P. for another couple and was President (TBP) for one year. He's been "among those present" at 7 Phoenix-Tucson Mixers, 3 Regional Conferences and 2 National Conventions. He is a "duffer with dreams," is Charlie—he admits, "I'm a lousy golfer, with a real desire to outscore Ron Weller someday." (Ron or "Big Red" is a product of Nebraska U football and is head-



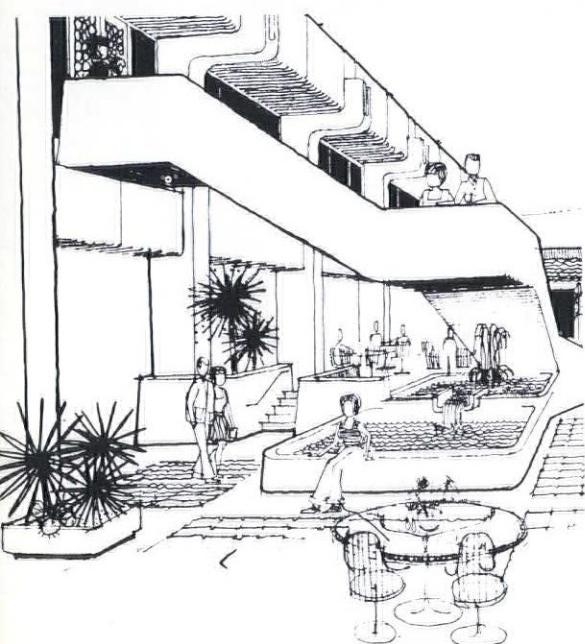
General Chairman Charlie Sewell

man of the Phoenix Chapter of Producers' Council!) With the above in mind, you can see that Charlie's ambition is considerable.

Writes R. (that's Rocky) James Noone, CSI's fearless Region 10 Director . . . "The ninth annual Region 10 Conference will reinforce the present status of all its Chapters. Although all CSI members in the Region participate in their Chapter's activities voluntarily, they would welcome some assistance in developing increased local effectiveness. The activities in Tucson under the Conference theme of 'Using CSI Today' will include sessions on 'Using CSI Documents', 'Using Effective Techniques', 'Using Chapter Activities' and 'Using the Community Forum'—all are designed to improve the effectiveness of each Region 10 Chapter in its contribution to its Design-Construction community."

We would like to underline at this point . . . *Ladies Invited!* As Jim puts it so well, "Since the CSI Ladies may find these sessions less than stimulating, we have planned some pleasant diversions to include "Old Tucson," the Sonora Museum, nearby Nogales in Mexico, the Theater and Symphony Hall and downtown Tucson activities." And, girls, speaking from pleasant experience, bring a *big* shopping bag and plenty of you-know-what. The bargains are, well—bargains!

Now that you've hung that nice, new 1974 calendar up on the wall, flip a couple of pages and circle in red these important dates—March 21 - 22 AND 23! That's the time for Tucson, and you won't want to miss it!



# A Better Way!

## THE MAN HOUR DATA BANK

by: Robert E. Fehlberg, FAIA

This past month our firm signed a contract to design a new airport terminal building in Montana. The contract was executed using a fee schedule we felt would be adequate, however, it was based on minimum experience; we had designed one other terminal building. How many times does this happen in our profession? On this project we are working on a percentage of construction cost not on a clear evaluation of what our costs might be. It might have been better if our negotiations with our client would have been on our direct personnel expense times a multiple or on a direct personnel expense plus a lump sum fee. The problem being there is no information available on how many hours it takes to design a new airlines terminal building to accommodate an ultimate of 10 gates with first phase of 5 gates. Somewhere in the United States, this type of facility has been designed—perhaps several of these small facilities are now in operation.

The Architects who were involved with these projects have a much better feel for the time involved and might be willing to share that information, providing they could receive man-hour information on a hospital (or some other building type) they are now discussing with a potential client.

Recognizing fee schedules once prepared by chapters are no longer an acceptable approach to compensation and in most cases these schedules were quite arbitrary in their preparation, the state councils of California, Washington and Oregon have set out to establish a man-hour data bank. A simpler explanation of man-hour data bank is how many man hours does it take to perform architectural services for various types of building projects.

Taking our new client as an example, the Airport Terminal building, they have done a considerable amount of homework, have an airport development master plan, selected a site for a terminal building and are ready to proceed with building design. As a contrast, take a client who has to select a site for a building, conduct a site analysis, soils investigation, etc.—that second client is going to require more A/E time.

It is not logical to perform these services based on how difficult the contractor's work is. Why not base the A/E compensation on how difficult the design and drawing process actually could be?

Man-hour Data Bank, as being developed by the west coast councils, is a record keeping procedure which will enable Architects to break their services into different tasks which can be identified and are required on a project. All projects will not have the same requirement. For front end services, for site analysis problems, and for interior space procedures, the projects are different and the clients are different. How-

ever, if the tasks are broken into identifiable pieces and hours are recorded for those pieces of work and if enough similar projects are assembled for the Data Bank, it should be possible to get a feeling for the amount of time involved. Once man-hours have been established, it is an easy process to assign your salary scales, overhead rates and profit requirements to arrive at a reasonable compensation.

Ken Brooks, FAIA, of Brooks, Hensley, Creager, Architects—Spokane, is the chairman of the West Coast MHDB. Ken has long been an advocate of man-hour records and performing services for a client on the basis of what services the client needs rather than a percent of construction cost for a basic A/E service. Ken's comment is "What's a basic service—no one wants just a basic package, they want services tailored to them."

From the Oregon council is James Bernhard, AIA, of WE Group (Wilmsen, Greene, Endicott, Bernhard)—of Portland and Eugene—John Wells, AIA, of DeMars and Wells, Ber-



*Left to Right: Data Bank Chairman Ken Brooks, Seattle; Jody Proppe, Executive Secretary, Portland.*



*Left to Right: Mel Ferris, Executive Director of the California Council and John Wells, AIA, Berkeley.*



*Left to Right: Larry Sinkey and Gary Rehberg of Washington State University's School of Architecture.*

keley, California is the California representative. Also working on the MHDB is Mel Ferris, Hon. AIA Executive Director of California Council; Jody Proppe, Executive Secretary of Oregon Council and Portland Chapter; Alf Werolin of Case and Company, San Francisco, providing technical data and myself as a liaison with this committee and similar programs that are being developed nationally by AIA.

Since information storage and retrieval will become a major problem in the Data Bank, the committee has been working with Larry Sinkey and Gary Rehberg, both with the Computerized Practice department, School of Architecture, Washington State University.

The approach has been to determine what type of information is needed in the A/E firm—the tasks have to be broken down to usable increments of man hours, but in addition, the other information about the project must be recorded—project construction cost, date bid, square foot area, cubage, number of floors, type of construction, seismic zone, funding (Federal, State, Private), client evaluation (able to make decisions, slow in making decisions, changes scope, damn tough to work with), contractor evaluation (from excellent to incompetent). Once we know what we want, then we have to determine can that material be obtained from A/E firms, and when we get it, how is it stored for retrieval.

The computer is the obvious answer. The computer portion of the project is simple—collecting the data from firms will be the difficult part of the project. At this time, few firms are recording man-hours using the 56 category breakdown



*Glimpsed at left: Ken Brooks and Judy Proppe with Mel Ferris and John Wells.*

(grocery list) developed by California Council, but that is our goal, that detailed.

To get the program under way, projects will be recorded using just 6 divisions (pre-design, schematics, design development, working drawings, contract negotiation, construction administration). As record keeping becomes more sophisticated, the data bank can become more detailed in its output.

Oregon Council conducted a survey of 60 firms to determine interest in this type of record keeping and sharing—25% responded favorably including man-hour data on three projects each. California and Washington are in the process of conducting similar surveys. The intent is to determine interest, need, and if a sufficient number of firms are willing to invest in developing the Data Bank and becoming subscribers.

One thought has been—if you input information you will be able to get output.

With the Man-Hour Data Bank operation, our firm could have telephoned the Data Bank requesting the averages for Airport Terminal buildings having 10 gates, designed and constructed within the last 10 years. We could have also requested the complete data sheet on the last 5 projects of this type in the file. The data we requested would have been mailed to us that day. With this type of information available, we could have been more confident of our performing an adequate service for the proper amount of compensation.



*Responsible for both this interesting report and the accompanying graphics is Symposia Board Member Robert Fehlberg, FAIA. He is a principal in the firm of CTA Architects/Engineers/Planners with offices in Billings, Montana and Twin Falls, Idaho. CTA's practice extends over a six-state area providing comprehensive architectural services with a staff of 63 architects, interior designer, graphic designers and engineers (all kinds: civil, structural, mechanical, electrical).*

*"Fehl" is on the Board of the American Institute of Architects, representing the Northwest Region. He reports three new members have joined the Task-force . . . Ward Deems, FAIA, San Diego; James Cowan, AIA, Seattle and Douglas Blair of Portland.*



#### Teer to Keynote Meeting

Nello L. Teer, Jr., President of the Associated General Contractors of America, will be the keynote speaker when Colorado's AGC Building Chapter (AGC/C) meets at the Brown Palace on Saturday, January 26, for their annual get together. A member of the AGC Board of Directors for more than 20 years, Mr. Teer is president of the Nello L. Teer Company of Durham, North Carolina, which constructs heavy engineering, highway, building and utilities projects throughout the eastern U.S. and in many foreign countries. Mr. Teer is past president and director of the North Carolina Engineers Foundation, twice president of the American Road Builders' Association and recipient of the ARBA "Award for Exceptional Service to the Highway Program." He has been exceptionally active on Washington's Capitol Hill pressing for programs not only for the AGC general contractor but for the entire construction industry.

Other activities slated for the Annual meeting include a combined Membership Luncheon on Friday, 25 January, and an afternoon panel presentation of **MAKING MONEY MOVE** in the construction industry. In addition to

the general contractor, subcontractor and supplier of materials and services, the panel will involve those in other disciplines such as architects, engineers and construction users . . . the first such combined participation in activities associated with AGC/C's Annual meeting.

The traditional Safety Breakfast will be held at 8:00 a.m. on Saturday, followed by the business sessions where President James Brown will preside. The Annual Dinner-Dance at Pinehurst Country Club will honor President and Mrs. Teer and will celebrate an excellent construction year, with high hopes of another in 1974.

#### IAP Aids "Flight for Life"

The Industry Advancement Program administered by the Colorado Contractors Association (CCA) has presented a \$1000 check to Flight for Life, an emergency medical service provided by St. Anthony Hospital Systems. Initiated slightly over a year ago this comprehensive 24-hour emergency air service has made over 800 missions and now averages about five flights per day. CCA Safety Chairman William J. Keller commented at the presentation made at the helipad high atop St. Anthony's Hospital in Denver . . . "the CCA's safety program was organized to reduce the number of construction accidents as well as the rate of disabling injuries among heavy, highway and utility construction firms. Many of these accidents occur in

traffic-congested or remote areas making it difficult, if not impossible, for a land ambulance to get an injured worker to the hospital. Flight for Life insures quick response to construction accidents, and a trained staff necessary to take the injured to a hospital rapidly, without creating additional hazards."

#### Nevada Trains Supervisors

Harry Lemon, President of the Northern Nevada Division, Associated General Contractors of America, said in early December that over 85 AGC supervisors have completed a two-week safety training course. This course was jointly sponsored by AGC and the Industrial Safety Department of the Nevada Industrial Commission. Four evening sessions were held to provide a review of the Construction Regulations of the Federal Occupational Safety and Health Act.

Paul Franklin, Chairman of the AGC Safety Committee, coordinated the activities of the AGC and NIC, and an update on the latest revisions in the Federal Act was provided by Hal Warren, NIC Safety Consultant.

The training program is designed to make contractors' supervisory personnel aware of their responsibilities under the Federal Safety Act, and to make AGC construction projects safer. President Lemon stated that this training program, now in its third year, has been attended by over 200 AGC supervisors.



*Left to Right: George Seaton, Director of Flight Operations; E. V. Kuhlman, Executive Director/St. Anthony; CCA President Robert Dougan and William Keller, Safety Committee Chairman.*

# a student planning project TRANSPORTATION CENTER Seattle, Washington



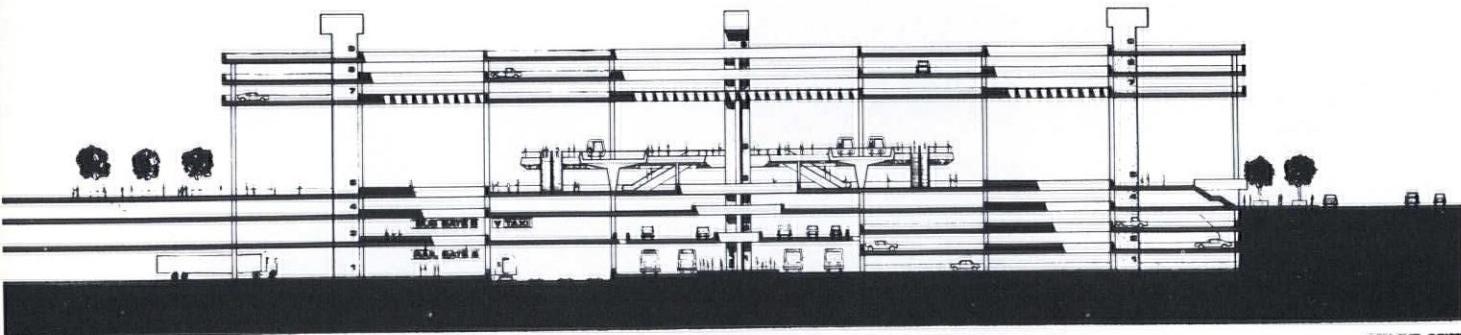
In presenting this student project from Washington State University, we would acknowledge a number of "helping hands." The introduction was provided by our Man in Spokane, Fred Creager, AIA/CSI, partner in the Spokane firm of Brooks, Creager and Hensley, when he sent us a copy of a handsome booklet "*Urban Design*." There were seven projects included, all developed during a semester in the fourth and fifth year architectural design classes during 1971-1973 in the Department of Architecture, College of Engineering, Washington State University. Chairman of the Department is David M. Scott and three faculty members were involved . . . Dorman D. Anderson, AIA,

Associate Professor; Peter C. Pran, MNAL/AIA Assoc., Assistant Professor and Robert M. Ford, AIA, Associate Professor. An Invited Jury of ten eminent Northwest architects reviewed the projects presented in the brochure which was edited by Professors Anderson and Pran.

As we leafed through the project, we were reminded of a statement made in 1972 by Architect Charles Colbert at the WMR Conference on "The Education of the Architect" in which he said that very often architects do their best design work as students—after viewing the work being done at Washington State—we're inclined to agree with him.

SCOTT CHARTIER FIFTH YEAR STUDENT  
DORMAN D. ANDERSON ASSOCIATE PROFESSOR

Number of stories	4 above and 5 below plaza
Structure	Post-tensioned concrete
Structural bay	60'-0" x 60'-0"
Floor-to-ceiling height	8'-0" (garages) 40'-0" (plaza level)
Gross floor area	884,800 SF
Parking in elevated garage	684 cars
Parking in first phase under plaza	800 cars
Expansion	Potential expansion for approximately 7500 additional cars under future expansion of the plaza level as it is integrated with the covered stadium.

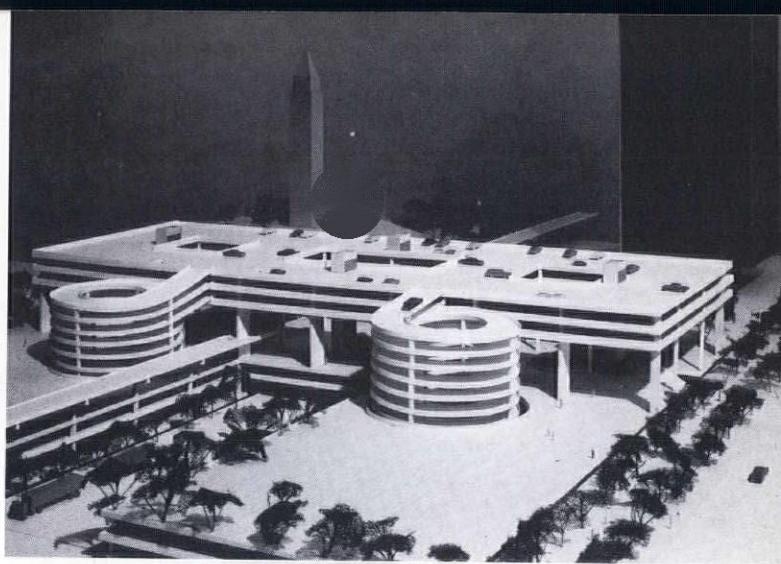


SECTION LOOKING NORTH

*"Architectural students must learn how to design buildings and must develop an understanding of the architect's responsibilities in urban planning."*

*"Through schematic design and design development we seek to develop refined buildings. All our design studies are carried out in drawings and models. We are concerned with clarity of spatial organization and the possibility for future use changes and expansion. The most thoughtfully designed buildings are clear statements of the theoretical basis upon which they were designed."*

*... from the Introduction to "Urban Design"*



This Transportation Center would be the primary southern entry into Seattle's Central Business District (CBD). It would ease the parking problem in the CBD by facilitating transfer from the private automobile onto public transportation systems; such as people movers, taxis, and the city bus system for a ride into the CBD. It would also be the point of entry for people arriving by interstate bus, national railways, and a potential rapid transit system from the Seattle-Tacoma International Airport. This project was sited directly east of the proposed Covered Stadium and potential convention facilities.

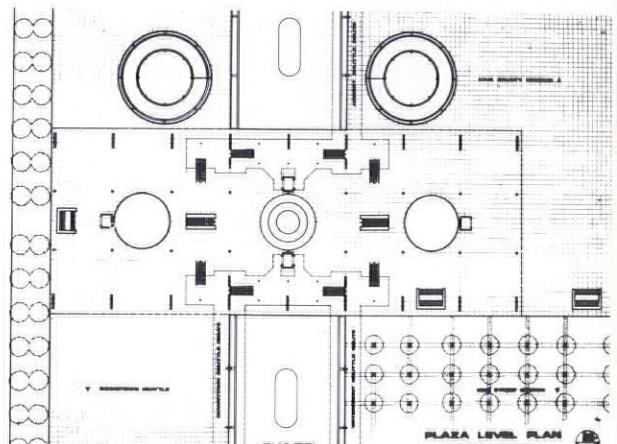
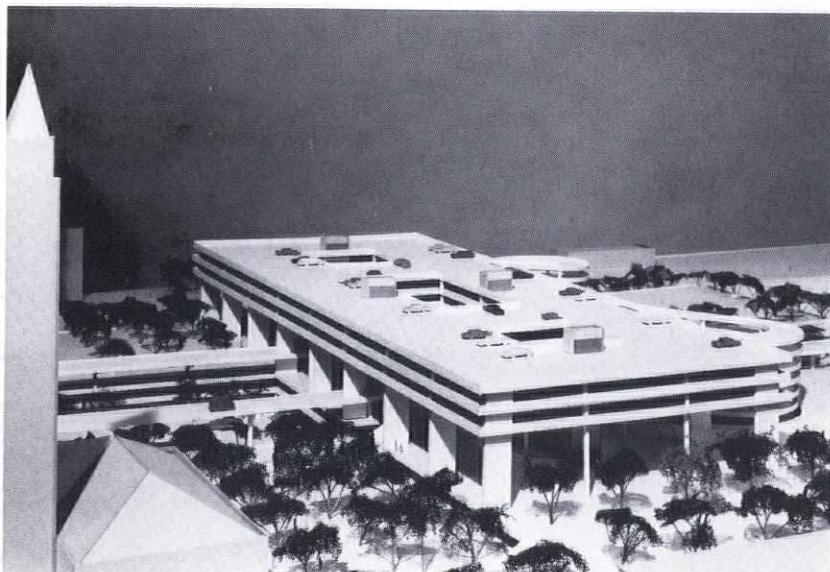
This site assured maximum use of the Transportation Center throughout the week. During weekdays its primary function would be service of the CBD and on weekends and evenings it would become one of the entries to the Covered Stadium complex. Seattle's downtown core has a daytime population of approximately 85,000, excluding shoppers and people on short-term business trips. The resident population is at most 15,000. Of the remaining 70,000, approximately

62,000 are downtown workers, and 8,000 are a transient hotel and motel population.

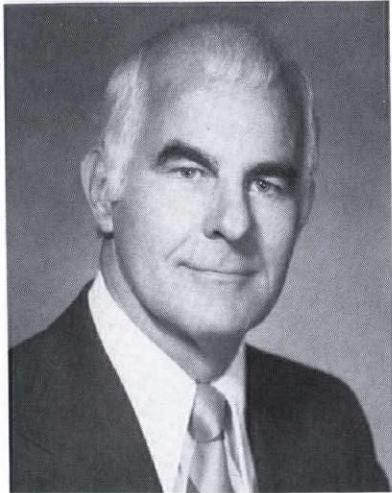
The Transportation Center is proposed for a site south of Jackson Street between Third Avenue and Fifth Avenue. was deemed important to provide this above-grade garage during the first stage of development, for its presence would encourage commuters to use public transportation to enter the CBD. It would be extremely easy to visualize parking directly above the loading platforms for the public transportation, additional parking can be constructed under the plaza level.

#### SITE

The Transportation Center is proposed for a site south of Jackson Street between Third Avenue and Fifth Avenue. Including a westward extension on the south end of the site to tie in with the Covered Stadium, the total site is approximately 47 acres. Therefore, the Transportation Center has a potential of holding approximately 9,000 parked automobiles.



## *Take Me To Your Leader*



*George W. Sprinkle, President  
Central Arizona Chapter  
American Institute of Architects*

Heading up the energetic CAC for FY/1973-'74 is that charming and delightful fellow, George Sprinkle. Although born in Tennessee, he came to Arizona at an early age, side-tracked briefly to California where he was educated at the University of California and UCLA. George also spent some seven and a half years in the offices of Welton Becket. In 1961, he came home to Arizona as manager of the Flagstaff office for Guirey, Srnka and Arnold (now, Guirey, Srnka, Arnold and Sprinkle). His partnership in the organization became official in 1965 and he transferred to Phoenix in 1970 where he's the principal in charge of production correlation and construction contract administration.

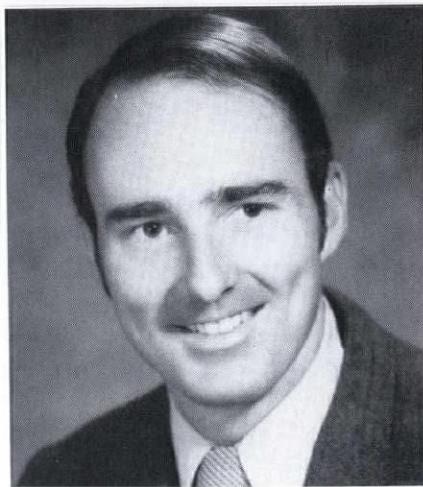
George has been a member of the Institute since 1961, serving in many offices and on lots of committees. This year, in addition to being "gavel-man" for the CAC, he is a member of the Executive Committee of the Arizona Society and on the National Committee on Corrections Architecture.

If you have met George, you will remember, with pleasure, his vivacious wife, Dorothy. They are the parents of a son and daughter.

Mary (Secretary) Smith of the CAC and Arizona Society office is pretty much of a go-getter on her own, and Mary tells us George's watchword during his year as "fearless" is to watch out for the effects of the following laws... Murphy's Law: "Nothing is as easy as it looks, everything takes longer than you think it will, if anything can go wrong it will."

Pudder's Law: "Anything that begins well ends badly."

Junkinson's Law: "It won't work."



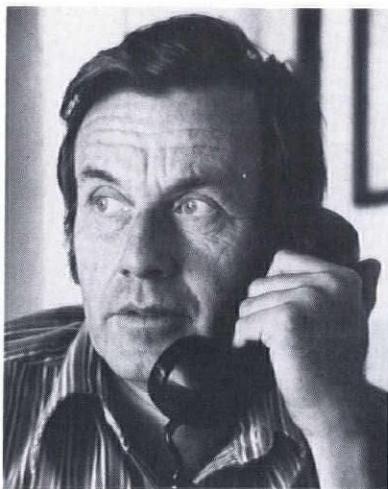
*Philip W. Dinsmore, President  
Tucson Chapter  
Construction Specifications Institute*

*(We will eschew all comment regarding our 1973 campaign to find out about this nice guy—we're just glad he's here!)*

When CSI members from throughout Region 10 meet in Tucson this March, they will be welcomed by Host Chapter Leader, Philip Dinsmore of the architectural firm of Architecture One Ltd. A long time resident of sunny Tucson, Phil is a graduate of Arizona University (one of Sid's Kids) working as a designer for William Pereira and Associates in Los Angeles following graduation. Returning to Tucson, he was three years with Cain, Nelson, Wares, Cook and Associates becoming an associate partner in 1969.

In November of 1970, Dinsmore, along with John R. Kulseth and John B. Riggs formed Architecture One Ltd., the first firm composed entirely of graduates of the University of Arizona. In a relatively short period of time the office has expanded from the three original members to the present staff of eighteen. The three founding members of the firm felt strongly that the team approach to the practice of architecture was the path to follow and for this reason the name Architecture One was chosen. Their Cochise Museum was cited in the 1973 WMR Honor Awards Program.

Lately Phil has been active in state and local organizations, including the Tucson CSI chapter and the Southern Arizona chapter of the AIA. In 1972-73 he served as treasurer for the Southern Arizona AIA. When the practice of architecture and donation of time to local organizations is not keeping him busy (rarely) Phil enjoys golf in the usually accomodating Tucson climate.



*John P. Conran, President  
New Mexico Society  
American Institute of Architects*

We first met John in 1966 when he and another Irishman named McHugh were co-chairing the Western Mountain Regional Conference in Santa Fe. For years now, we've been going to sit down and solve all kinds of world problems including the vagaries of the publishing business but keeping up with Conran is a little like trying to catch Kohoutek. His talents, his interests and his enthusiasms are many and demanding.

A graduate of Yale, he worked first for Whelan and Westman in Boston and since 1960 has maintained a practice in Santa Fe with David deRyck Lent. He is also the President of The Centerline, Inc., a contemporary furniture, accessory and gift store—a long time interest dating from 1952 when he settled in Santa Fe. John is, of course, a very active member of A.I.D. and has been elevated to Fellowship in this national organization in 1972.

Many know John best in his role as Editor of New Mexico Architecture magazine which he has served for so these many... as Co-Editor 1960-'66 and since that time as Editor. He has also been a member of the Institute's Component Editor's Liaison Committee, as Chairman from 1968-'70. He has also written widely for other publications in the architectural and design fields.

No one has been more active in the field of Historic Preservation, he was a founding member of Las Trampas Foundation, has served on the Board of Trustees of the Old Santa Fe Association, as a Director of the Historic Santa Fe Foundation and Vice Chairman of the New Mexico Cultural Properties Review Committee. But, our space simply does not allow listing all of these organizations which he has served so long and so well.

In many roles, he has been recognized by awards and citations. He has been a member of the New Mexico Society's Board for almost 14 years, has been Secretary/Treasurer and Vice President. We can be assured John Conran will keep things humming during his year as "fearless leader" of the New Mexico Society. Hold onto your hats... here we go!



## EXCELLENCE IN ESTHETICS AND ENGINEERING

Robert "Sandy" Sandoval, Executive Director of the Colorado Masonry Institute, has provided us with the complete list of the distinguished Jury who is even now selecting the finalists in the first CMI/CMCA Awards Program. Both architects and structural engineers have made submittals in this program which is sponsored by the Colorado Masonry Institute, the Colorado Mason Contractors Association and the Masonry Advancement Program.

The Architectural Design Jury will be headed by Pietro Belluschi, FAIA, of Portland, Oregon, winner of the 1972 Gold Medal of the American Institute of Architects. (See our October issue/page 16.) Other members of the Jury are Hideo Sasaki, principal in the firm of Sasaki, Dawson and DeMay of Cambridge, Massachusetts, and Edward Larrabee Barnes, FAIA, of New York City. This jury will review all submissions and make an initial selection of outstanding entries which will be announced on 1 February. In the final stage, jury members will visit the buildings chosen as finalists and the entire jury will evaluate the entries.

Awards of engineering excellence will be presented to the engineers of buildings judged to be superior in the final evaluation and will be judged on the basis of total masonry engineering with emphasis on innovation and the applicability of engineering solutions with masonry. The Engineering Jury is chaired by Walter L. Dickey, P. E., Consulting Engineer with the Masonry Institute of America in Los Angeles. The other jurors are Albyn Mackintosh, P. E., of Mackintosh and Mackintosh, Inc., Consulting Engineers of Los Angeles, and Don Wakefield, P. E., Vice-President of Interstate Brick, West Jordan, Utah.

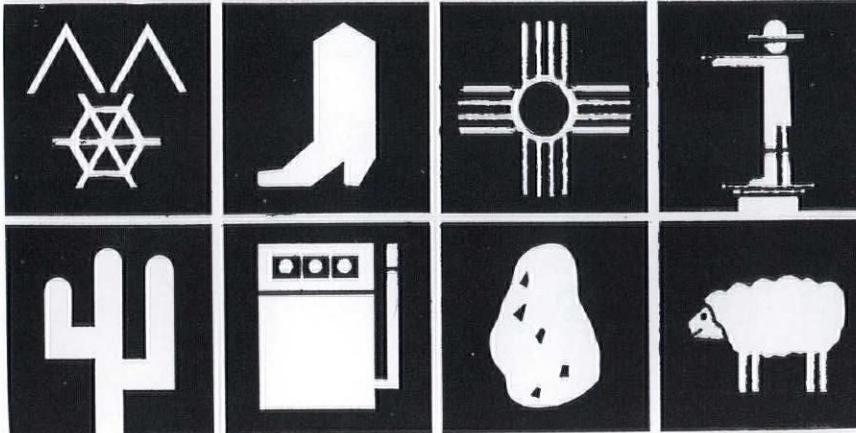
Presentations to the winning architects and engineers will be made at a gala Awards Banquet to be held Saturday, April 27, in Denver.

---

**BRUBAKER!** Yep, Charles W. (Bill) Brubaker, principal in the Perkins-Will Partnership of Chicago will be in Denver on January 24th to address the Colorado Central Chapter/AIA. Watch the mailbox for time and place info!

---

# symposia/around the region



## alaska

### Annual Meeting/AIA

Robert Fehlberg, FAIA, Northwest Regional Director, paid an official call on the Alaska Chapter on the occasion of their Annual meeting in Fairbanks, and has been good enough to share his visit with us. Held November 9 and 10 at the Fairbanks Inn, organization for the meeting was in the capable hands of Janet Matheson of the University of Alaska/Fairbanks, and "Fehl" reports it was an excellent affair.

The Luncheon speaker on Friday was Robert Pavitt, Director of Planning and Research/Office of the Governor. He spoke on "The Relationship of Architects to State Planning." At the afternoon business session the Alaska Chapter elected Doug Ackley of Juneau as President; Troy Jenkins, Anchorage, V. P.; Frank Maier, Juneau, Secretary-Treasurer. 1974 Directors are John Courage, Sue Golub and Immediate Past President Earl Fullingim, all of Anchorage.

Reviewing the Saturday program, it becomes immediately evident who the Main Clients are in the Land of the Northern Lights. Speakers included Robert Blake, Office of Facilities Engineering and Property Management, H.E.W.; George Easley, Commissioner, Department of Public Works/Alaska; Don Gilmer, Planning Director of the Fairbanks North Star Borough; William Beaty, Director of Planning for the Greater Anchorage Area Borough; Superintendent John Hayward from the Kenai Peninsula Borough School District and Architectural Planner, Richard Holden / Alaska University. Banquet Speaker was Max Brewer, Commissioner, Department of Environmental Conservation for the State of Alaska.

Such a day of Concentrated Bureaucracy would strike terror into the hearts of the average practitioner, but those Alaskan architects are made of sterner stuff!

## arizona

### RUDAT Team in Phoenix

Seven urban experts headed by Lawrence Melillo, AIA, of Louisville, Kentucky, will visit Phoenix, Arizona, January 18-21 to survey the city's planning problems under the AIA's Regional/Urban Design Assistance Team (RUDAT) program. The largest urban area to request RUDAT assistance, Phoenix has had an active regional planning program. Rapid expansion, however, has aroused community interest in seeking ways to control the scale and character of the city's growth. Through the RUDAT visit Phoenix will receive a fresh analysis of its current situation and a set of recommendations suggesting directions for future planning.

Working with Melillo in Phoenix will be urban planner Charles Blessing, FAIA of Detroit; urban designer John Desmond, FAIA of Hammond, Louisiana; transportation consultant Alan M. Voorhees of McLean, Virginia; Dr. John Newbold, director of the ecology center at Utah State University; Dr. John Neidercorn, chairman of the department of economics at the University of Southern California; and urban sociologist Dr. John Zeisel of Harvard.

The RUDAT program is administered by the AIA's Urban Planning and Design Committee. The committee is presently conducting a follow-up study of the 16 cities served by the program since its establishment in 1967, and is also expanding its list of design and planning experts in order to meet the increasing demand for RUDAT assistance.

## A.S.U. Offers Seminar

Beginning on January 22, the College of Architecture at Arizona State University will offer a two-hour credit course to practicing architects and fifth-year students. Meeting on Tuesdays from 7-9 p. m. and conducted by James T. Flynn, Associate Professor, the seminar will consider a variety of specialized aspects of practice as seen by the visiting experts in each area. These lecturers will include Michael Goodwin, AIA (Politics-State Planning); Don Myers (Economics of Planning and Zoning); Frank H. Burch, Attorney (High Rise Case Studies); Jack Lake (Purchasing Architectural Services); Harry Higgins, AIP (Energy Crisis); Robert Fairburn, AIA (Unique Potential of the Architect); Milan Srnka, AIA (Management) and Harry Higgins (Land Use).

Following Spring Vacation, Richard C. Perrell, FCSI/AIA will lecture on Specifications Systems. Other visiting experts will be Herman Chanen (Federal Housing and the Entrepreneur); George Schoneberger, AIA (Urban Planning), Sam Kitchell, AGC, (Construction Management) and Perrell again on Construction Supervision.

Registration can be completed on January 22 beginning at 6 p. m. — and cost for the course is \$32.00 whether registered for credit or if you wish only to audit the Seminar. An excellent continuing education opportunity for the practitioner by Arizona State University! Worth the time and the money!

## Environmental Planning

A fifteen-man Commission has been appointed by Arizona Governor Jack Williams establishing a group to prepare a state-wide land use plan in accordance with a Bill passed during the last legislature. Commission Chairman is Dow Ben Roush of Phoenix and will include State Senators William C. Jacquin, James A. Mack and Arthur J. Hubbard, Sr. State Representatives are Michael Goodwin (AIA — Hear! Hear!), Richard Pacheco and Ray Everett. Other members are F. J. MacDonald (AILA — Cheers!), F. C. Braden, Roy P. Drachman, Jerry Haggard, Charles Wetzler, Gene Brewer, Cecil H. Miller, Jr. and Andrew L. Bettwy.

In his letter of invitation to the Commissioners, Governor Williams wrote regarding the land use plan — "This is no easy task and must be done with great care. It will have state-wide impact and should be based on the widest possible input of ideas, opinions and

judgments as to what is and is not desirable and workable. At the earliest opportunity I would like to discuss with the Commission means by which this broad input base can be established."

It was heartening indeed to see at least two professionals on this Commission — it doesn't happen often!

## colorado



### Interim Report

"Tag" Grossman and the staff of C. F. Murphy are coming down the home stretch on preliminary plans for the proposed 16th Street Mall in downtown Denver. The Interim Report meeting drew a goodly group representing all facets of the downtown community; City Public Works and the Denver Planning Office; the parking industry; citizens groups; retail merchants; business and financial interests; the press; students and the general public. Those in attendance showed genuine interest in the project. There was a 45-minute slide presentation and a number of graphic illustrations. Questions were fielded by "Tag" and staff as well as by Philip Milstein of Downtown Denver, Inc.

Many of the graphic illustrations will be on display at various locations in Downtown Denver . . . and will travel from place to place, thus enabling citizens and business people the widest possible opportunity to view the preliminary analyses for this project. The final report from C. F. Murphy, et al., will be issued on February 1.

### Penner Changes Name

The Penner Construction Company has changed its name to Centric Corporation. According to Wayne Brown, President and General Manager, the change to Centric is to signify the company's manifold construction capabilities and its aggressiveness in the contemporary market place.

"Centric, by definition, means nerve center," explained Brown. "And we are aggressively pursuing being at the center of the construction activities in Denver. We already have developed strong capabilities in commercial building, engineering projects and water and sewer treatment facility construction as well as

multi-family projects. In the bid market, we have become a dominant force." "In addition," Brown continued, "We recognize what's happening in the market place with renewed emphasis on contractor participation in the pre-construction phases of a project — construction manager, negotiated contracts, etc. We have a division in Centric meeting this demand head-on."

Centric Corporation will continue to conduct its business from 5490 West 13th Avenue, Denver, Colorado 80214, and will host an open house January 10 and 11 to kick off the name change.

### ACEC Sets Annual Meeting

Monday, April 22 — Grand Ballroom of the Brown Palace Hotel in Denver are the vital statistics on the 1974 CEC/Colorado Engineering Excellence Awards Banquet at the Annual Meeting. Bob Behrent heads this year's Engineering Awards Committee, and is hoping for entries from a large number of firms . . . (Looking for another Grand Conceptor, Bob?) If you have any questions on the program — call Bob at 433-2578 or the Office at 757-3379.

Also in conjunction with the Annual Meeting is the presentation of the Annual Engineering Scholarship. Applications, instructions to applicants and letters to the Deans of Colorado Engineering Colleges will be mailed early this month. This fund has grown considerably in recent weeks through contributions to the Harvey A. (Hak) Kadish Memorial fund. Persons wishing to contribute to this worthy cause should make out their checks to the Trustees of CEC/Colorado Scholarships.

### Finalists Selected

Announcement was made in early December of the six Colorado architectural firms and groups who have been selected in the design competition for the proposed new State's Courts Building and the State Museum Complex. John Birmingham, assistant to the Governor, worked with the Governor's Architectural Advisory Committee, and professional advisor is James M. Hunter, FAIA, prominent Boulder architect, now retired. The selected firms and joint-venture groups selected are — Marvin Hatami and Associates/The Ken R. White Company; Rogers - Nagel - Langhart, Inc.; James Sudler Associates; Haller and Larson Ltd./Fisher, Reece and Johnson; The ABR Partnership; and Lusk and Wallace Associates/Johnson-Hopson Associates. Architectural proposals for the \$10.250 million court-

museum complex to be built south of the Capitol at Broadway and Lincoln Streets are due on February 25. The winner of the Competition will be selected in March by a five-member jury. There are three prominent members of the architectural profession represented — Chairman Pietro Belluschi, FAIA, Institute Gold Medalist; Karel Yasko, FAIA, of the General Services Administration, and Charles Blessing, FAIA, from City Planning in Detroit. Also serving on the Jury will be Chief Justice Edward Pringle and William Marshall, Director of the State Historical Museum.

Project construction is scheduled to begin in the fall with completion slated for mid-1976, Colorado's Centennial Year.

## nevada

### Extra Payroll Benefits

According to Primo Bertoldi, Chairman of the Northern Nevada Health and Welfare Joint Administrative Group, the construction industry has mailed out approximately two and one-half million dollars in extra payroll benefits to Northern Nevada construction employees. These funds are contributed by contractors in the area into special vacation fund savings accounts and paid to employees during the holiday season. Release of the funds is designed to increase the buying power of construction workers for their families at Christmas.

The administrative group which handles these funds includes trustees from the Nevada Chapter, Associated General Contractors and various construction trade unions in the area. The trustees administer an additional ten million dollars in group insurance, pension, and similar benefits for twelve thousand construction employees and their dependents.

While the two and one-half million dollars in holiday pay has a substantial impact on the economy of Northern Nevada, the other funds have a continuing bolstering effect on the area's economy. A portion of the money is invested in local banks and savings and loan associations. Serving with Mr. Bertoldi as trustees on the administrative group are Lou Paley, Everett Brunzell and a representative from AGC staff.

## new mexico

### Here and There with AIA

As always, Joe Boehning turns up in our smilin' Symposia mailbox with an interesting account of "wha' hoppen" in the

Land of Enchantment. He reports — "The Albuquerque Chapter elected officers at its meeting on November 8. This very pleasant affair was held at the home of artist Morris Ripple and his wife, Betty. Morris is one of the outstanding water color artists in this part of the country. He is also a member of AIA, and did practice architecture until he decided to devote his full time to painting a few years ago. In addition to electing officers (see: Take Me To Your Leader), the chapter had a lively discussion regarding revisions to the State Society fee schedule."

According to Joe, the New Mexico answer to Holiday Lighting and the Energy Crisis was the traditional "luminarios." Many of you have seen them, but this type of decoration uses candles in paper sacks with sand in the bottom of the sack. These lighted sacks line curbs, walks, walls, building parapets, etc. — a most attractive Christmas decoration using not one whit of precious energy. Of course, New Mexico uses "luminarios" for any gala occasion . . . you can always find the party — just look for the "luminarios."

#### More Officers

Winding up our report on "fearless leaders" in the Land of Enchantment, we would note that Ken Clark will head the Santa Fe AIA Chapter with Robert Strader serving as Vice President and John McHugh as Secretary-Treasurer. Directors are John Conron and Ted Luna. All the 1973 officers for the Southern Chapter were re-elected . . . which means Kern Smith is President; Will Harris, Vice President, and Joel Stout serves as Secretary / Treasurer. Charles Nolan and Richard Waggoner continue as Directors.

#### oregon

##### Astoria Hosts Historians

(Our appreciation to Kent Duffy of the WEGroup, Portland, for this excellent report.)

The Disbrow Catalog of Architectural Ornamentation of the late 19th Century proved to be as far-reaching and enjoyable a resource as was the recent gathering of the Northern Pacific Coast Chapter of the Society of Architectural Historians. An enjoyably diverse group converged upon the Astoria Public Library from throughout Oregon, Washington, California and Idaho. Within the warmth of a photography Exhibit by Daniel B. Marx, five papers were presented. Arthur Hart, Director of the

Idaho Historical Society, dealt with woodworking factories and catalogue ornament, complete with an introduction to the Disbrow Catalogue which was such an important part of it. From Portland, Alfred Staehli, AIA, spoke on historic preservation of Italian city-centers, an outgrowth of the time he spent there. Ella-Marie K. Loeb of Berkeley's presentation was on Old World and Pre-Columbian Communal Housing. Charles Gilman David, AIA, from Portland State University's School of Architecture provided us with an understanding of Finnish Vernacular Architecture in Clatsop County including the "recently restored" Lindren Cabin near Astoria. The closing presentation was by Leonard B. Kimbrell, Portland

State University Art Historian, who supplied a humorous introduction to the Astoria Column's genesis.

The group paused at the historic home of Dr. and Mrs. Edward Harvey for a luncheon and reflected upon the projects presented, and then proceeded with a bus tour of historical points of interest. High points included the Clatsop County Historical Museum, the Maritime Museum, and the Astoria Column complete with a trio that filled the column with resonating song.

A seafood banquet at the Astoria Country Club brought the final moments of a memorable experience to a close. A great deal of work made this possible, and in respectful response, thanks to the Conference Committee and especially to Elizabeth Walton (Secretary-Treasurer, 765 Winter Street N.E., Salem, Oregon; dues \$2.00).

The next conference will be in the spring of 1974. Its location is not yet finalized but most likely will be either Boise, Idaho, or Victoria, British Columbia. The only requirement for attendance is interest, and because it goes beyond historians and professionals, is a valuable and pleasing asset. See you there.

#### Portland Chapter Honors!

Although we did report on the First Annual Chapter Honors and Issues Program in our December issue, we were short a few of the important details . . . like who got the laurels! Jan Peterson, President of Portland's very active Women's Architectural League, presented the 1973 scholarship to Randy Tomic who is a fifth year student at the University of Oregon. Dean Gisvold was honored for his pioneer enthusiasm and hard work for individual and citizen participation as Chairman of the Citizens Advisory Committee interested in planning issues in the community.

Lloyd Keefe, past Planning Director of the Portland Planning Commission, was commended for his foresight in recognizing and beginning to implement plans for enhancing the strong characteristics for which Portland is recognized.

Certainly one of the most deserving groups to be honored was the forty women of the Urban Tour Group. These ladies have donated time and energy for the past four years to a program of architectural and environment awareness. They have offered city tours to more than 5,000 school children and their teachers! A fine contribution toward educating future clients!



Specializing in Service to  
Architect & Contractor

Schlage Amweld

In Denver Stock

Phone 623-6272

JOHNSON  
HARDWARE, INC.  
WEST 7TH & ALCOTT STREET  
DENVER, COLO. 80204

# project

## WASHINGTON STATE PAVILION FOR: EXPO '74—SPOKANE, WASHINGTON ARCHITECTS/ENGINEERS: Walker, McGough, Foltz and Lyerla



The major structure on the one hundred acre Expo '74 site in Spokane will be the Washington State Pavilion which will serve multiple uses during the World's Fair and remain as a permanent building with a dual community role later. The handsome pavilion will house a theater, an exhibition hall and an open mall in between. The structure rises ninety feet on the theater portion and is forty feet high at the Exhibition Hall. A sloping roof covers the entire theater-mall complex.

The versatile Music Hall will seat 2,700 and is acoustically adaptable for symphony concerts, ballet, opera, road shows, musical stage productions, trav-elogues, convention sessions and lectures. Theater seating is continental style with entrance from a lobby completely enclosed in bronze tinted glass. The interior decor is largely natural with carpeted floors, fabric covered

seats, oak veneer panels, doors and louvered ceilings. A wide variety of entertainment performances will be offered during Expo including the Los Angeles Philharmonic, the Seattle Opera and even Gordon Lightfoot.

Separating the theater section from the Exhibition Hall, under cover of the sloping roof, is a 10,800 SF open mall which will allow the free flow of visitors from the street side of the building on the south to the open spaces of Expo activities on the riverbanks.

The Exhibition Hall—with the residual benefit of use as a Convention Center following Expo '74—encompasses 75,000 SF of floor space. The main story to be told in the Washington State Exhibit is titled "About Time," a color film backgrounded with an original musical score. Using a rear screen projection technique in conjunction

with strategically-located mirrors, the viewer will be surrounded with sight and sound designed to give him the impression of images stretching to infinity.

The entire complex is being built and will be operated under the auspices of the Washington State Commission for Expo '74, with Spokane business executive, Luke Williams, Jr., as chairman and Commissioner for the pavilion. Pavilion Director and Deputy Commissioner is Richard L. Kirk. The World's Fair opens on May 4 and closes on November 3.

Following Expo, the Washington State Pavilion will be a cultural and convention center on the landscaped south bank of the Spokane River, as a part of the river front park. It will remain for the enjoyment and enrichment of many generations in the future.



OPENING YOUR CURTAINS DURING THE DAY AND CLOSING THEM AT NIGHT IN THE WINTER WILL MAKE USE OF NATURAL HEAT, PREVENT HEAT LOSS, AND SAVE ENERGY.



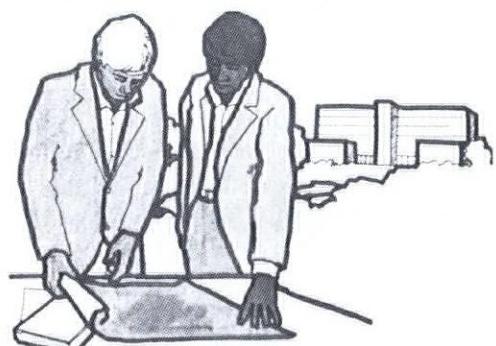
**Public  
Service  
Company**  
of  
Colorado

an investor-owned utility

### Draftsmen's School in Morocco founded by Peace Corps volunteer

H. William Gaisser, Jr., Peace Corps volunteer from Evansville, Indiana, made lasting contributions to the North African country of Morocco. He designed such projects as public markets and squares, low and moderate income housing, shopping centers, parks, government buildings, dispensaries, and camping and tourist fa-

cilities. 50% of his design projects were completed or under construction when he returned to the States. Co-workers of Gaisser's from the Morocco Ministry of Urbanism, Habitat and the Environment took over the direction of the school for draftsmen to ensure its continued operation and growth when Gaisser left.



### peace corps/vista

For Information On 1974 Architecture Programs And Placement Contact:

Room 524, 1050 17th St., Denver, Colorado 80202 303-837-4173

## the last word:

Vacation Village, San Diego is the spot for Grassroots West scheduled this year for January 17-19. Always an important meeting!

Valley Forward Awards have been presented to Central Arizona AIA members Gabor Lorant and Craig Walling - Laurels are in order!

Don Schlegel has resigned as Chairman of the Department of Architecture at New Mexico University as of the end of the 1973-'74 school year. Don Stevens and Van Dorn Hooker represent the architectural profession on the Selection Committee.

Idaho's Engineers (ISPE-ACEC) will hold their annual meeting on January 24, 25, 26 at the Rodeway Inn in Boise. ACEC Vice President Victor O. Gray will be one of the principal speakers.

Earle Florence, AIA, has been appointed to the Tempe Design Review Board. He's partner in the Phoenix firm of Schoneberger, Straub, Florence and Associates.

It was Happy Birthday time at the offices of Ken R. White in Denver . . . and some kinda soiree! Cracked Crab, Oysters Rockefeller and goodies galore. A grand affair!

Jerry Young (Flintkote), Secretary-Treasurer of the Salt Lake Chapter/CSI, will be in Denver after 1 January. Salt Lake's loss is Denver's gain. Welcome back to the Mile High, Jerry!

They've pinned a rose on the cover of the "Wic Specs", a "new look" in newsletters from the Metro Denver Chapter of Women in Construction. Jo Ann Ball heads the bulletin committee.

Architects seldom get the chance, but at the December meeting of the Southern Arizona Chapter, Jim Hummer and Staff (Comprehensive Planning) were on hand with a program titled - "Tell Tucson Where To Go."

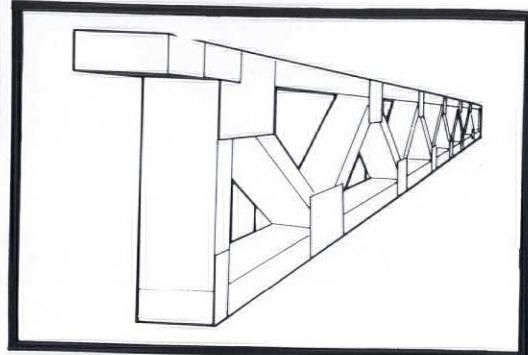
**Proposed Legislation:** California's ACG is seeking mandatory licensing of firms offering construction management services. This would be the first state to require such certification.

Denver's Allen Keesen is the 1973-'74 coordinator for the International Design Competition for the American Institute of Landscape Architects. Entries are due on 15 January with winners to be announced at the National 14-17 February at the Union Square Hyatt House in beautiful San Francisco.

Guess who turned up FIRST in Symposia's smiling mail box with Merry Merry greetings . . . Jean and Don Wakefield! Don is now with Interstate Brick in Salt Lake City, but he and his frau are still being missed in Denver Town!

Cited for distinction in the 1974 Government Professional Development Awards program of the NSPE - The Division of Water Resources of the State of Colorado. Presentation will be made in Biloxi, Mississippi on January 17.

## THERE'S A REVOLUTION UNDERFOOT



### The Alpine Floor Truss System

**Speeds Construction** — Floor trusses go up faster — the carpenter saves time — the builder saves \$.  
**Saves Costly Labor** — With carpenters, electricians, air conditioning and heating contractors.  
**Versatile** — Greater spans — more flexibility in design.

Richardson Lumber Company  
1480 East 61st Avenue  
Denver, Co. 80216 Phone - (303) 287-9685



### Live in the cool fresh world of Richlawn Quality Sod



Your choice of  
**NURICH**  
Grown only by Richlawn  
Also Windsor and Merion Kentucky bluegrass  
Grown by experts . . . Installed by experts

Full Written Guarantee



**Richlawn  
Turf Farms**

Denver 771-5611  
Colorado Springs 473-5836  
Pueblo 473-5836 (Call Collect)

Call us on your next estimate.



## WATERPROOFING PRODUCTS

Distributed by

Colorado, New Mexico & Wyoming  
SMALLEY & CO. Denver, 744-7289

Arizona  
IMPERIAL MASONRY & ENGINEERING CO.  
Mesa 969-5333

\*a latex of hydrophobic organic resins in water suspension

# OKON, INC.

6000 West 13th Avenue (303) 232-3571  
Lakewood, Colorado 80214

Olson Associates officially opened their beautiful new offices at 1660 South Albion in late November. It was a great party!

Specifications Consultant Richard C. Perrell, AIA/FCSI, (also a member of Symposia's family) has moved his offices to Suite A, 4260 North Brown in Scottsdale, AZ. You can give him a jingle at 946-0555.

The December meeting of the Pikes Peak CSI Chapter, according to Intent, came in two parts: 1) Has the energy crisis hit the North Pole and 2) Do reindeers pollute and are they really safe?

(Continued from Page 8)

structures identified and classified by the State and/or local government authority as Historic Buildings. Subject to the approval of the review board with such buildings adjudged by the building official to be safe and in the public's interest of health, safety and welfare regarding any proposed construction, alteration, repair, enlargement, relocation, and location within fire districts. All such approval must be based on the applicant's complete submission of professional architectural and engineering plans and specifications bearing the professional seal of the designer.

## TARKETT

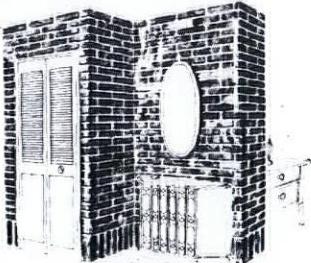
PVC Sheet Vinyl — Schools and Hospitals  
Acoustiflor, Multiflor, Conductiflor  
Gymflor, Wallgard

**John Kilbey                      Gaylord Kirksey**  
**INTERNATIONAL SALES SPECIALISTS**

400 Osage Street                      Denver, Colorado  
303/623-6662

**The hardest thing about building this beautiful brick wall was opening the box.**

There are 84 Dacor Miracle Bricks in a box. Each looks and feels like brick. Each is only 1/4-inch thick. So you can put them on any wall. In any pattern you want. And you have 12 square feet of brick wall. That looks and feels like a brick wall. In six authentic styles.



For detailed specifications call or write

**DACOR**  
MIRACLE BRICKS

**DENVER RESERVE SUPPLY CO.**

555 W. 48th Ave. 892-5588  
Sold through your local lumber dealer.

### ... about the cover

January seemed an ideal time to use this picture of "man looking to the future." The man is not easy to identify, but we will tell you it is architect John "Himself" McHugh of Santa Fe, New Mexico, who shares his many talents with our readers as a member of our Editorial Advisory Board.

The picture was taken on the site of the unfinished home of Mrs. Mary Louise Maytag McCahill on Tano Road in Santa Fe. This house, by the by, is a beautiful design by Mr. McHugh and his firm, McHugh, Kidder, Buran and Wright, with offices in Santa Fe, Albuquerque, Clovis and Dallas, Texas. "Tano Road," John writes, "lies north of town offering a view of the mountains to the west and to the east. I'm looking east to the Sangre de Christo range."

Photographic credit is accorded Bob Baxter of Baxter Associates in Santa Fe who does Architect/Engineer reproduction work as well as top-notch photography. Familiar in both fields, Mr. Baxter worked with large construction companies for many years. John concludes, "He is personable, professional looking and has a charming wife."

Our wish for the New Year can only be that your vistas and ours may be as serene and untroubled as the "future" John contemplates on our cover.

# **Who Benefits From STANDARDIZED SPECIFICATIONS?**

**THE OWNER BENEFITS** because the cost of his project will be less.

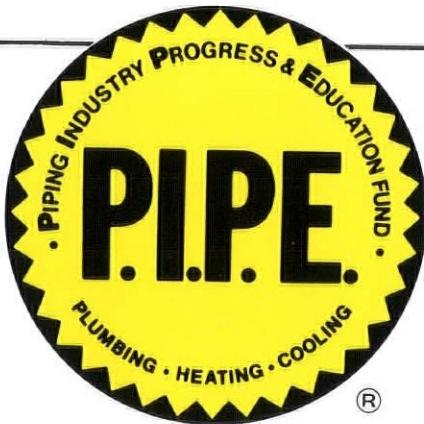
**THE ARCHITECT AND ENGINEER BENEFIT** because their job of writing specs is made easier.

**THE CONTRACTOR BENEFITS** because he can follow the specifications easier and thereby accomplish more work in less time.

**THE CONSTRUCTION CRAFTS BENEFIT** because there is less chance of confusion and work stoppages that put them out of jobs.

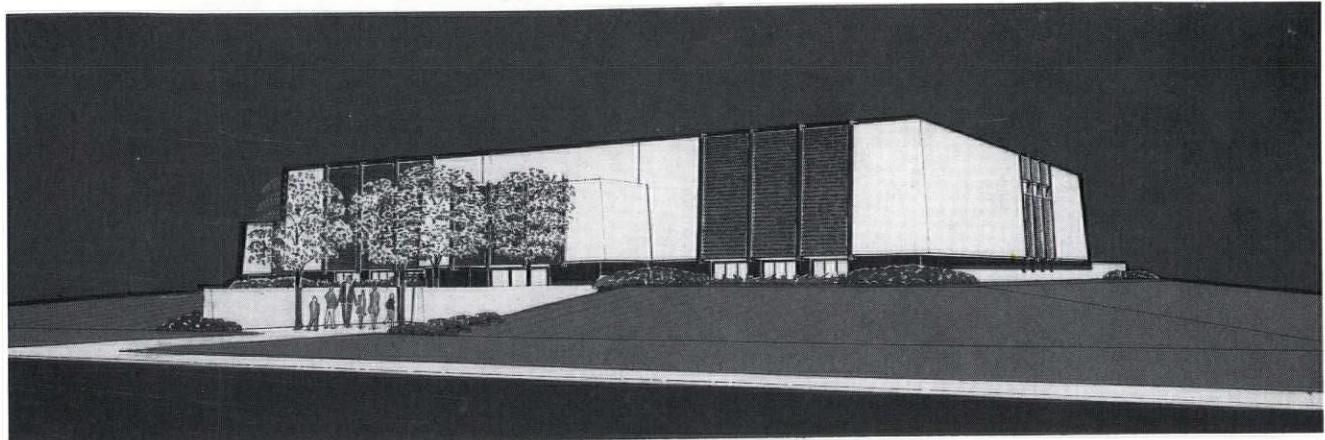
**THE GENERAL PUBLIC BENEFITS** because much unnecessary, unproductive construction costs are eliminated which promotes a stronger economy.

If you write specifications for the Mechanical Contractor portion of a construction job, watch for an important announcement from



**Organized labor and management  
working together for the public good.**

**Piping Industry Progress & Education Fund** 1971 West 12th Ave.  
Suite 201, Denver, Colorado 80204 / Telephone (303) 266-1935



## LONGMONT NATATORIUM

architect: James H. Walsh, AIA

consultant: Reginald V. Batt, Jr.

participants:

HUD and City of Longmont

general contractor:

Fischer Construction Co.

All Steel

and

Architectural Metal

by



*Zimmerman Architectural Metals, Inc.*

303 • 893-3123   201 E. 58th Ave.   Denver, Colorado 80216

Metal Craftsman Since 1932